

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/520,033B  
Source: 1 FWO  
Date Processed by STIC: 3/27/07

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 03/27/2007

PATENT APPLICATION: US/10/520,033B

TIME: 16:27:24

Input Set : A:\101141-21 Project.ST25.txt

Output Set: N:\CRF4\03272007\J520033B.raw

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3 <110> APPLICANT: Chan, Raquel
5 <120> TITLE OF INVENTION: Transcription factor gene induced by water deficit
conditions ...
7 <130> FILE REFERENCE: 101141-21
9 <140> CURRENT APPLICATION NUMBER: 10/520,033B
C--> 10 <141> CURRENT FILING DATE: 2004-12-30
12 <160> NUMBER OF SEQ ID NOS: 22
14 <170> SOFTWARE: PatentIn version 3.3
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 774
18 <212> TYPE: DNA
19 <213> ORGANISM: Helianthus annuus
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26 aaacgattta ccgacaaaca aataagtttc ctagagtaca tgtttgagac acagtcgaga      180
28 cccgagttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagtg      240
30 gcgatatggg tccagaacaa acgcgcgcga tcaaagtcga ggcagattga gcaagagtat      300
32 aacgcgctaa agcataacta cgagacgctt gcgtctaaat ccgagtcctc aaagaaagag      360
34 aatcaggccc tactcaatca ggtatggttg caaacttaca atggtgcatt caactattta      420
36 agtagttttg aatttttgtg acaataaaga ttgacaaatg ttgtttgata attgattaac      480
38 agttggaggt gctgagaaat gtagcagaaa agcatcaaga gaaaactagt agtagtggca      540
40 gcggtgaaga atcggatgat cggtttacga actctccgga cgttatgttt ggtcaagaaa      600
42 tgaatgttcc gttttgcgac ggttttgcgt actttgaaga aggaaacagt ttgttgagaa      660
44 ttgaagaaca actgccagac cctcaaaagt ggtgggagtt ctaaagagta aagaaggatg      720
46 tagaagtagt agagtaaaaa ctaaaacata ccagatagtt ggtttacact ttgt          774
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 673
51 <212> TYPE: DNA
52 <213> ORGANISM: Helianthus annuum
54 <400> SEQUENCE: 2
55 tcactagtac cataatatc acaaacacac acacctcaga aacgaagctt gcacataatg      60
57 tctcttcaac aagtaccac aacagaaaca accaccagga agaaccgaaa cgaggggagg      120
59 aaacgattta ccgacaaaca aataagtttc ctagagtaca tgtttgagac acagtcgaga      180
61 cccgagttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagtg      240
63 gcgatatggg tccagaacaa acgcgcgcga tcaaagtcga ggcagattga gcaagagtat      300
65 aacgcgctaa agcataacta cgagacgctt gcgtctaaat ccgagtcctc aaagaaagag      360
67 aatcaggccc tactcaatca gttggaggtg ctgagaaaatg tagcagaaaa gcatcaagag      420
69 aaaactagta gtagtggcag cgggtgaagaa tcggatgatc ggtttacgaa ctctccggac      480
71 gttatgtttg gtcaagaaat gaatgttccg ttttgcgacg gttttgcgta ctttgaagaa      540
73 ggaaacagtt tggttgagat tgaagaacaa ctgccagacc ctcaaaagtg gtgggagttc      600
75 taaagagtaa agaaggatgt agaagtagta gagtaaaaaa taaaacatac cagatagttg      660
77 gtttacactt tgt          673
80 <210> SEQ ID NO: 3

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81 <211> LENGTH: 1221
82 <212> TYPE: DNA
83 <213> ORGANISM: Helianthus annuus
85 <220> FEATURE:
W--> 86 <221> NAME/KEY: promotor
87 <222> LOCATION: (1)..(1221)
88 <223> OTHER INFORMATION: Large allele
90 <400> SEQUENCE: 3
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93 caacacacct acaaacgtgt caattcacac ttcaccaatt tcatttcctt ttagtcaatc      120
95 atattaaaag tagtagcccc caccgccatt tgttacctac catttcccac tttaataatc      180
97 acccacgcta tgtccacttg tacttttggt tgacacaaac tcttcccata aaatatcaaa      240
99 ccaaatTTTT tttagtggaa acaaaattcc ccaaatagaa tactaacgaa attcatcgca      300
101 tcagaatata ctcatctctg aacagtggcg aagcttgacg ttttcgacgg ggggtcggaa      360
103 aacgtatgta cccgaaattt ctatagaatc ggggggtcga aaacgtatat acccaaaatt      420
105 tctatacgaa aactacatat ataacactac tgagcaaaaa gttcgggggt tcgggcgccc      480
107 ctcccgcccc cttcaaagct tcgccaatgt ctctgaaccg aagaaaaccc tcaactcgct      540
109 actagccaat gaatcctcac cagggaacc ctcactcgtc ttactggact attggcgctt      600
111 ccaaatggac tacttgcgaa attcaccaca tcgggataca ctcgctact gcggtgaggt      660
113 aaaacccgct tggctcaagg atcgaaactag cgattgctgc ctactgcct aatctcccat      720
115 catcaacagg tgccgcgcaa acaaaatgct gggggcggga gttgaacctt ggtccagtga      780
117 cgcacccatg aatttttttt ctagggatgc gaacgagtgg tttaaccata cttttaagag      840
119 gtgcgatcgg aaattttacc tataaaatac actaaaaaag ttccaagggt ccaccacccc      900
121 cttaacctaa gtccgccttt gtctggatca cgtgaaacat caggtctctc ccttaccagt      960
123 ccagctacga ctcatgaca aaatatcaaa accatatgat tttgagtttt atctcaaccg      1020
125 aaagtacat catgacagag aatcgacata accaaaacgt gtaaactgtac aactcaccat      1080
127 tgcgttgaaa aggacaaaac aggtaggatt cttgtcaaat tcaacgcgta cacctgtgct      1140
129 tcatctaaac ccatacttt aagaaccttt ataaagacca ctactatat atacacatat      1200
131 ataatatcac ttatcaaacc c
133                                     1221
134 <210> SEQ ID NO: 4
135 <211> LENGTH: 28
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Designed oligonucleotide based on promotor and having Hind
III site
142 <400> SEQUENCE: 4
143 gcgaagcttg atgcgaacga gtggttta      28
146 <210> SEQ ID NO: 5
147 <211> LENGTH: 28
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Designed oligonucleotide based on the promoter and having
Sal I site
154 <400> SEQUENCE: 5
155 gcggtcgaca cctggcacat cgtatctt      28
158 <210> SEQ ID NO: 6
159 <211> LENGTH: 27
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence

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163 &lt;220&gt; FEATURE:

164 &lt;223&gt; OTHER INFORMATION: Designed oligonucleotide based on the promotor and having

Bam HI

165 site

167 &lt;400&gt; SEQUENCE: 6

168 cgcggatccg aggttttgat aagtgat

27

171 &lt;210&gt; SEQ ID NO: 7

172 &lt;211&gt; LENGTH: 27

173 &lt;212&gt; TYPE: DNA

174 &lt;213&gt; ORGANISM: Artificial Sequence

176 &lt;220&gt; FEATURE:

177 &lt;223&gt; OTHER INFORMATION: Designed oligonucleotide based on the promotor and having

Hind

178 III site

180 &lt;400&gt; SEQUENCE: 7

181 cccaagctta acctaagtcg gcctttg

27

184 &lt;210&gt; SEQ ID NO: 8

185 &lt;211&gt; LENGTH: 27

186 &lt;212&gt; TYPE: DNA

187 &lt;213&gt; ORGANISM: Artificial Sequence

189 &lt;220&gt; FEATURE:

190 &lt;223&gt; OTHER INFORMATION: Designed oligonucleotide based on the 5' promotor

192 &lt;400&gt; SEQUENCE: 8

193 ggcaagctta tctcaaccga aagtgac

27

196 &lt;210&gt; SEQ ID NO: 9

197 &lt;211&gt; LENGTH: 19

198 &lt;212&gt; TYPE: DNA

199 &lt;213&gt; ORGANISM: Artificial Sequence

201 &lt;220&gt; FEATURE:

202 &lt;223&gt; OTHER INFORMATION: Designed loigonucleotide based on the 5' promotor

204 &lt;400&gt; SEQUENCE: 9

205 atttcgcaag tagtccatt

19

208 &lt;210&gt; SEQ ID NO: 10

209 &lt;211&gt; LENGTH: 1015

210 &lt;212&gt; TYPE: DNA

211 &lt;213&gt; ORGANISM: Helianthus annuum

213 &lt;400&gt; SEQUENCE: 10

214 gatccaattg gaccacctgg cacatcgat cttatctctt ttgtcgtttc caacacacca 60

216 caacacacct acaaagctgt caattcacac ttcaccaatt tcatttcctt ttagtcaatc 120

218 atattaaaag tagtagcccc cccccatt tgttacctac catttcccac tttaataatc 180

220 acccacgcta tgtccacttg tacttttggt tgcacacaac tcttcccata aaatatcaaa 240

222 ccaaattttt tttaatggaa acaaaatact tcaaatgcac tattggtgaa attcaccaca 300

224 tcagaatata cccgtctcta ctcatctact ggccaacgaa tcttcacggg ggaaaccctc 360

226 actcgtctac tgggactact ggcgcttcaa aatggactac tgacaaaatt caccacatcg 420

228 ggatacactt gtctactgcg gtgaggtaaa atccgcccgt cagctcaatg atcgaactag 480

230 cgatcgccac ccaactcaact tgtctcccat catcaccagg tgccgccaaa acaaaatggt 540

232 gggggcgggg attgaacctt ggtccagtgg cgcacccatg aatttttttt ctagggatgc 600

234 gaacgagtga tttaaccata cttttaagag gtgcgatcgg aaattttacc tataaaatat 660

236 actaaaaaaa tttaagggtt ccgcccaccc accccttaac ctaagtcgcg ctctgcctgg 720

238 atcacgtgaa acatcagggt tctctcttac cagttcacct acaactcatt gacaaaatat 780

240 caaaaccata tgattttgag ttttatctca accgaaagtg acatcatgac agagaatcga 840

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242 cataaccaaa acgtgtaaac gtacaactca ccattgCGTT gaaaaggaca aaacaggtag      900
244 gattcttgTC aaattcaacg cgtacacCTG tgcttcatCT aaacCCcata ctTTaagaac      960
246 ctttataaaG accactcact atatatacac atatataata tcacttATca aacCC      1015
249 <210> SEQ ID NO: 11
250 <211> LENGTH: 28
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Designed oligonucleotide that matches nucleotides 81-100 of
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256      Hahb-4 cDNA sequence and having Bam HI site
258 <400> SEQUENCE: 11
259 ggcggatCCA acagaaacaa ccaccagg      28
262 <210> SEQ ID NO: 12
263 <211> LENGTH: 29
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Designed oligonucleotide for cloning 5' cDNA and having Bam
HI
269      site
271 <400> SEQUENCE: 12
272 ggcggatCCC ctggtgGTTg tttctgTTg      29
275 <210> SEQ ID NO: 13
276 <211> LENGTH: 34
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Oligonucleotide based on 5' cDNA and having Xho I site
283 <400> SEQUENCE: 13
284 gaggactCGa gctcaagTTt tttttttttt tttt      34
287 <210> SEQ ID NO: 14
288 <211> LENGTH: 18
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Oligonucleotide based on 5' cDNA and having Xho I site
295 <400> SEQUENCE: 14
296 gaggactCGa gctcaagC      18
299 <210> SEQ ID NO: 15
300 <211> LENGTH: 29
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Designed oligonucleotide based on the promotor and having
Eco RI
306      site
308 <400> SEQUENCE: 15
309 gccgaattCa gattgagCaA gAgTataac      29
312 <210> SEQ ID NO: 16
313 <211> LENGTH: 19
314 <212> TYPE: DNA

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315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Designed oligonucleotide based on the promotor
320 <400> SEQUENCE: 16
321 acctttataa agaccactc 19
324 <210> SEQ ID NO: 17
325 <211> LENGTH: 19
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Designed oligonucleotide based on the promotor
332 <400> SEQUENCE: 17
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336 <210> SEQ ID NO: 18
337 <211> LENGTH: 24
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial Sequence
341 <220> FEATURE:
342 <223> OTHER INFORMATION: Oligonucleotide to DNA-binding assays
344 <400> SEQUENCE: 18
345 aattcagatc tcaataattg agag 24
348 <210> SEQ ID NO: 19
349 <211> LENGTH: 24
350 <212> TYPE: DNA
351 <213> ORGANISM: Artificial Sequence
353 <220> FEATURE:
354 <223> OTHER INFORMATION: Oligonucleotide to DNA-binding assays
356 <400> SEQUENCE: 19
357 gatcctctca attattgaga tctg 24
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361 <211> LENGTH: 30
362 <212> TYPE: DNA
363 <213> ORGANISM: Artificial Sequence
365 <220> FEATURE:
366 <223> OTHER INFORMATION: Oligonucleotide having Bam HI site
368 <400> SEQUENCE: 20
369 gcgggatcca ccatgtctct tcaacaagta 30
372 <210> SEQ ID NO: 21
373 <211> LENGTH: 30
374 <212> TYPE: DNA
375 <213> ORGANISM: Artificial Sequence
377 <220> FEATURE:
378 <223> OTHER INFORMATION: Oligonucleotide having Sac I site
380 <400> SEQUENCE: 21
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384 <210> SEQ ID NO: 22
385 <211> LENGTH: 27
386 <212> TYPE: DNA
387 <213> ORGANISM: Artificial Sequence

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**VERIFICATION SUMMARY**

DATE: 03/27/2007

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TIME: 16:27:25

Input Set : A:\101141-21 Project.ST25.txt

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:86 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3